Figure 1a

RING TOPOLOGY

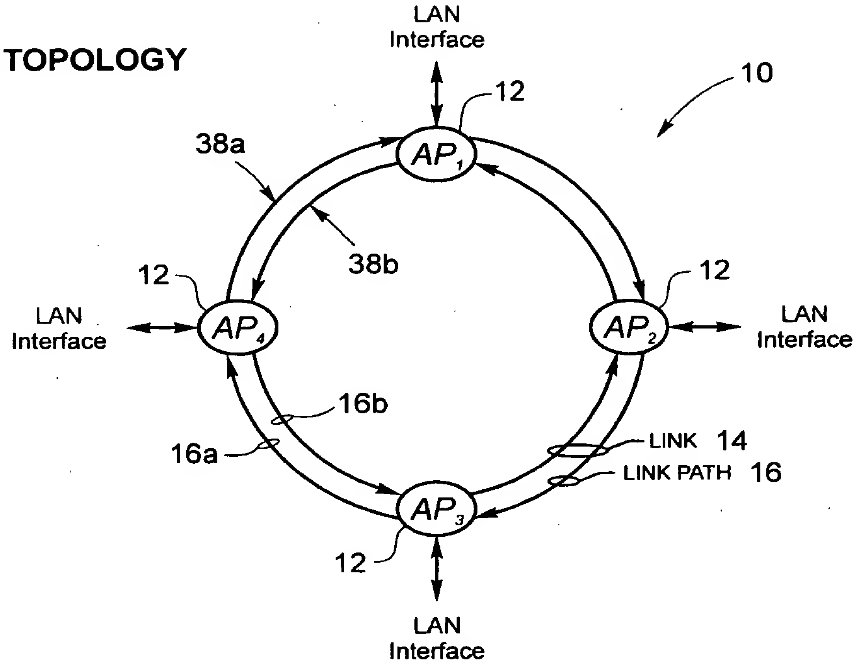


Figure 1b

LINEAR TOPOLOGY

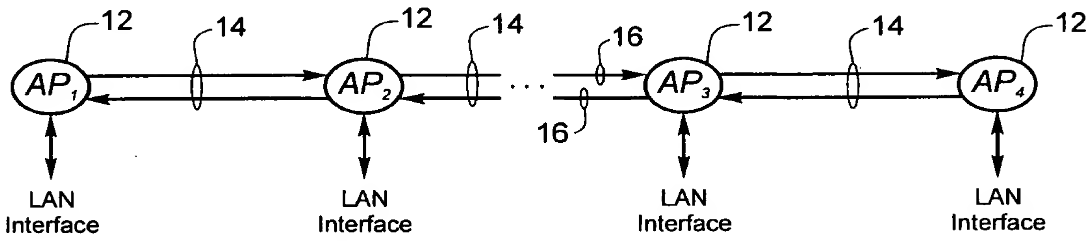


Figure 1c

POINT-TO-POINT TOPOLOGY

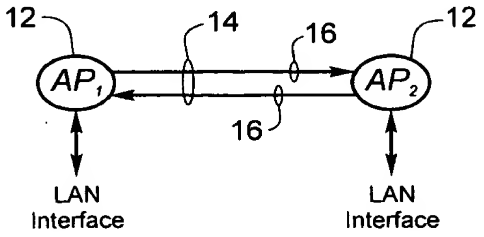


Figure 2

DCRR ACCESS POINT

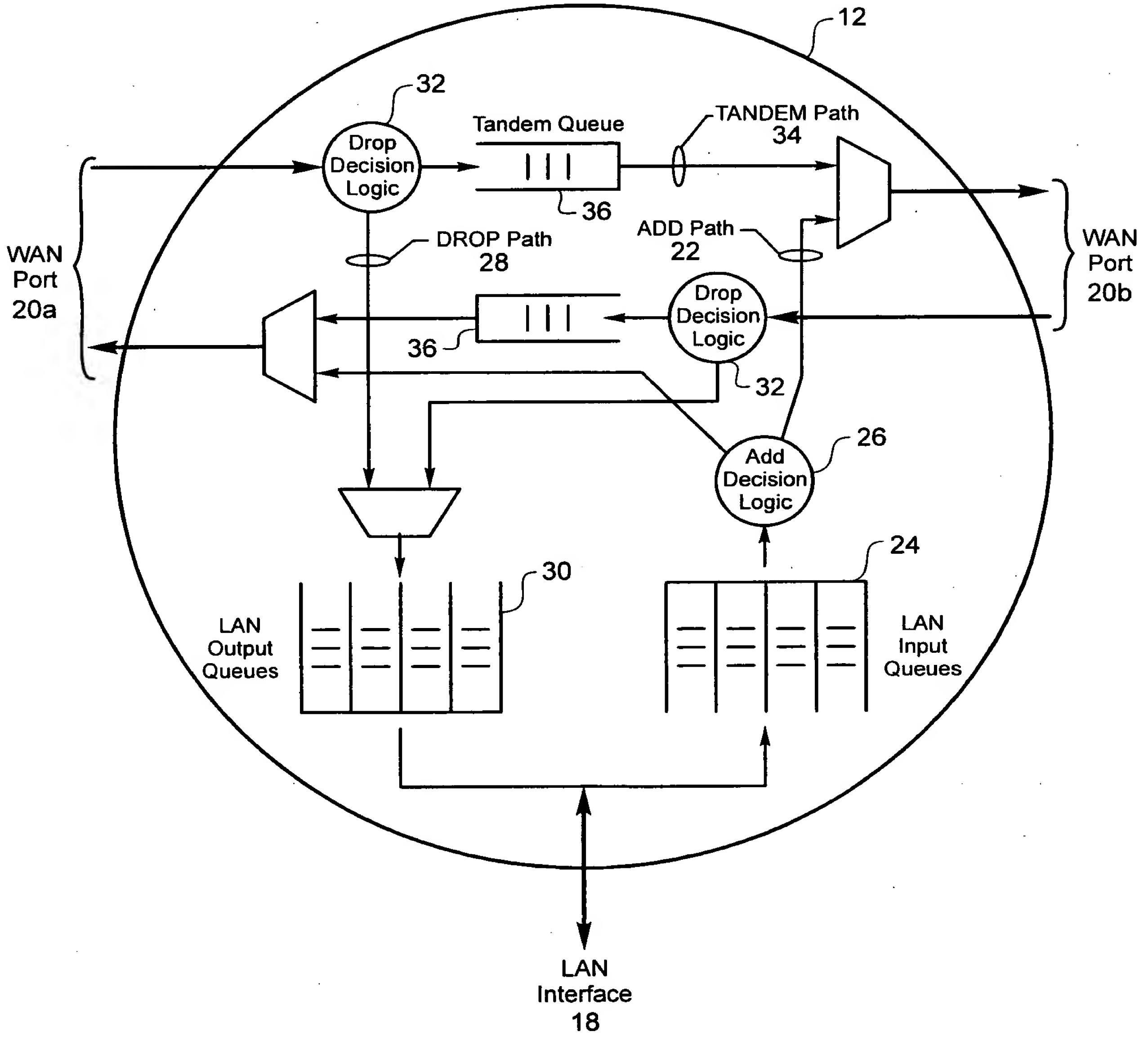


Figure 3

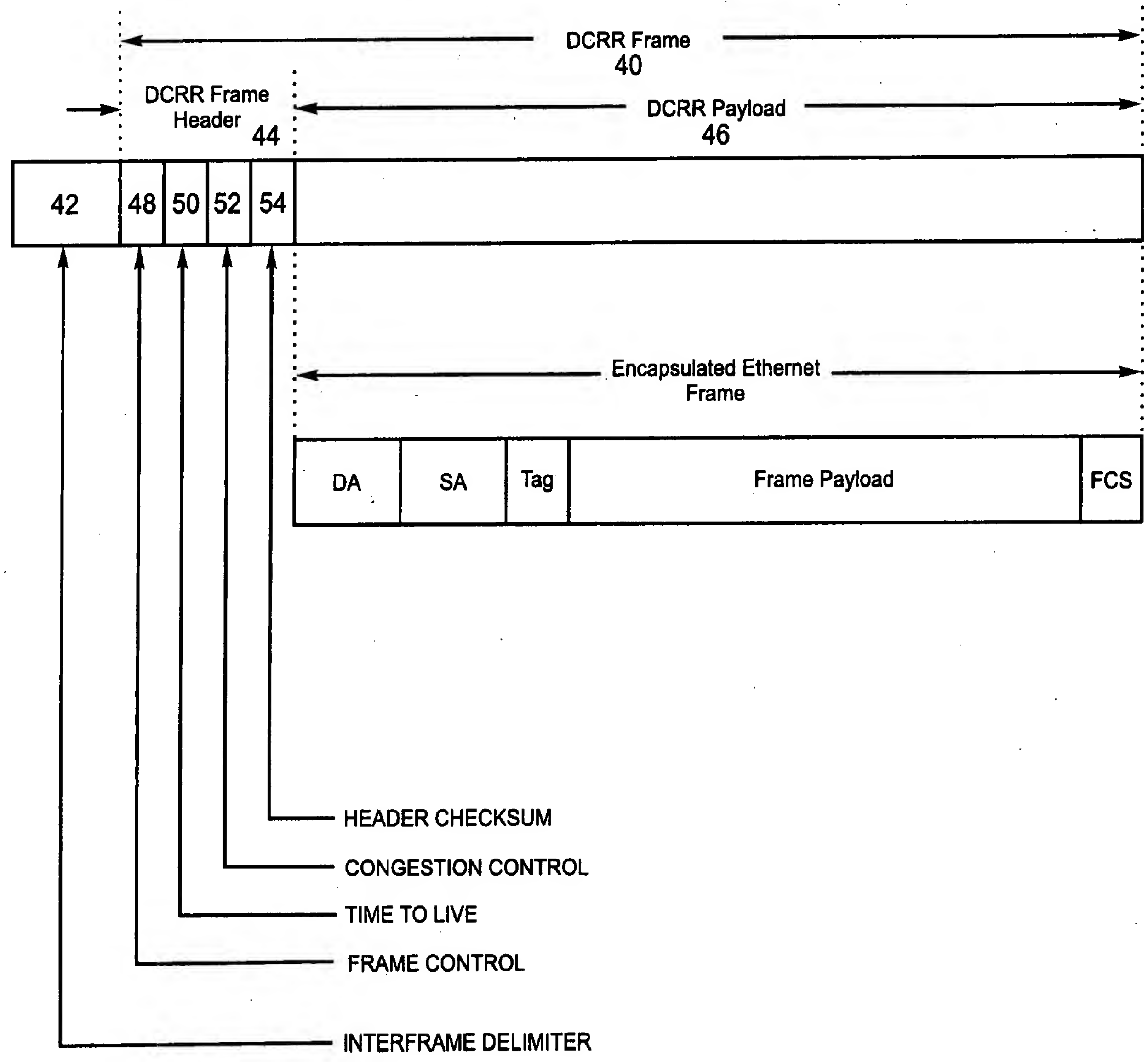

DCRR Frame
40
DCRR Frame Header
44
DCRR Payload
46
42
48
50
52
54
Encapsulated Ethernet Frame
DA
SA
Tag
Frame Payload
FCS
HEADER CHECKSUM
CONGESTION CONTROL
TIME TO LIVE
FRAME CONTROL
INTERFRAME DELIMITER

Figure 4

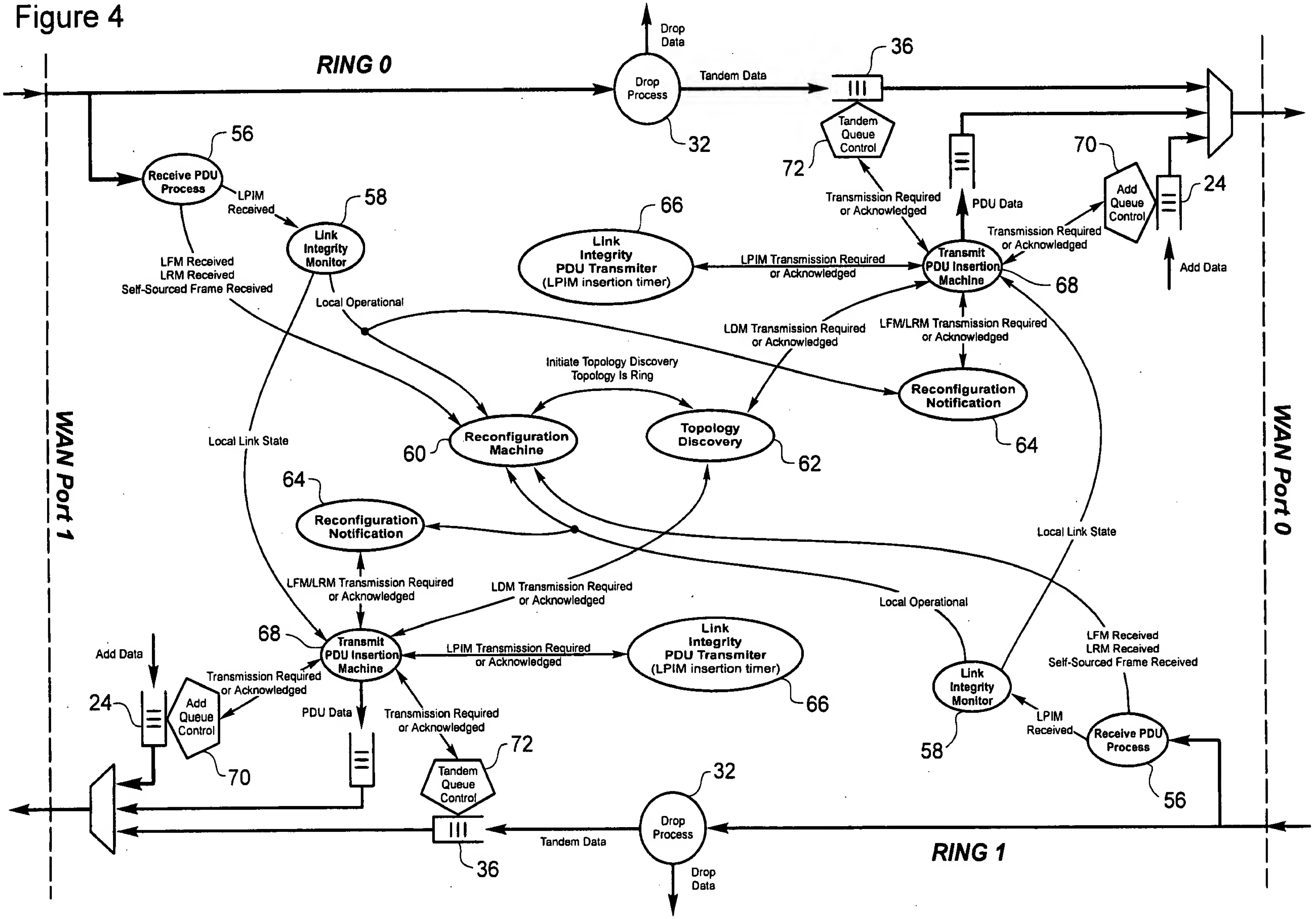

RING 0
Drop Data
Drop Process
32
Tandem Data
36
Tandem Queue Control
72
Transmission Required or Acknowledged
PDU Data
70
Add Queue Control
24
Transmission Required or Acknowledged
Add Data
56
Receive PDU Process
LPIM Received
58
Link Integrity Monitor
LFM Received
LRM Received
Self-Sourced Frame Received
Local Operational
66
Link Integrity PDU Transmiter (LPIM insertion timer)
LPIM Transmission Required or Acknowledged
Transmit PDU Insertion Machine
68
LDM Transmission Required or Acknowledged
LFM/LRM Transmission Required or Acknowledged
Initiate Topology Discovery
Topology Is Ring
Reconfiguration Notification
64
Local Link State
60
Reconfiguration Machine
Topology Discovery
62
64
Reconfiguration Notification
Local Link State
WAN Port 1
WAN Port 0
LFM/LRM Transmission Required or Acknowledged
LDM Transmission Required or Acknowledged
Local Operational
LFM Received
LRM Received
Self-Sourced Frame Received
68
Transmit PDU Insertion Machine
LPIM Transmission Required or Acknowledged
Link Integrity PDU Transmiter (LPIM insertion timer)
66
Link Integrity Monitor
58
LPIM Received
Receive PDU Process
56
Add Data
24
Add Queue Control
70
Transmission Required or Acknowledged
PDU Data
Transmission Required or Acknowledged
72
Tandem Queue Control
32
Drop Process
36
Tandem Data
Drop Data
RING 1

Figure 5

LINK INTEGRITY MONITOR MACHINE STATES

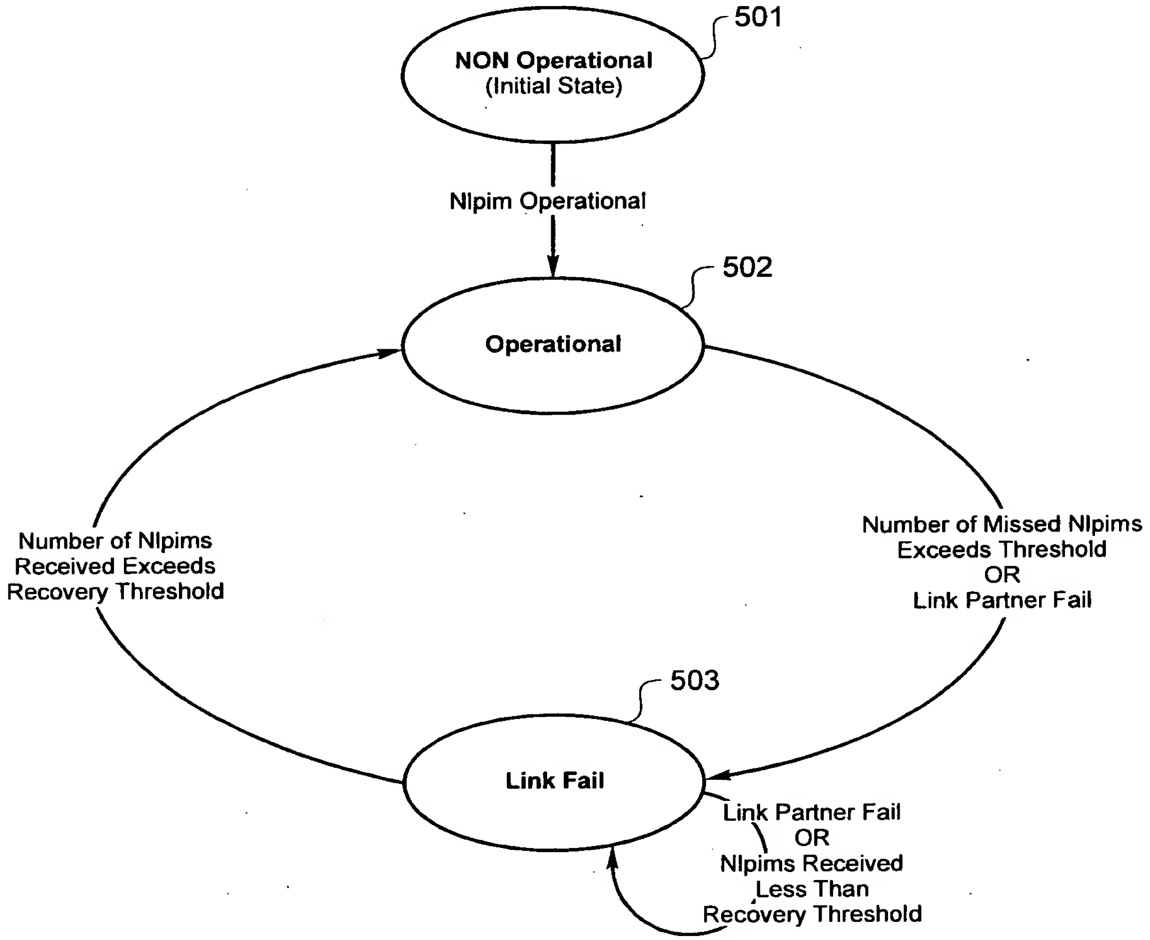
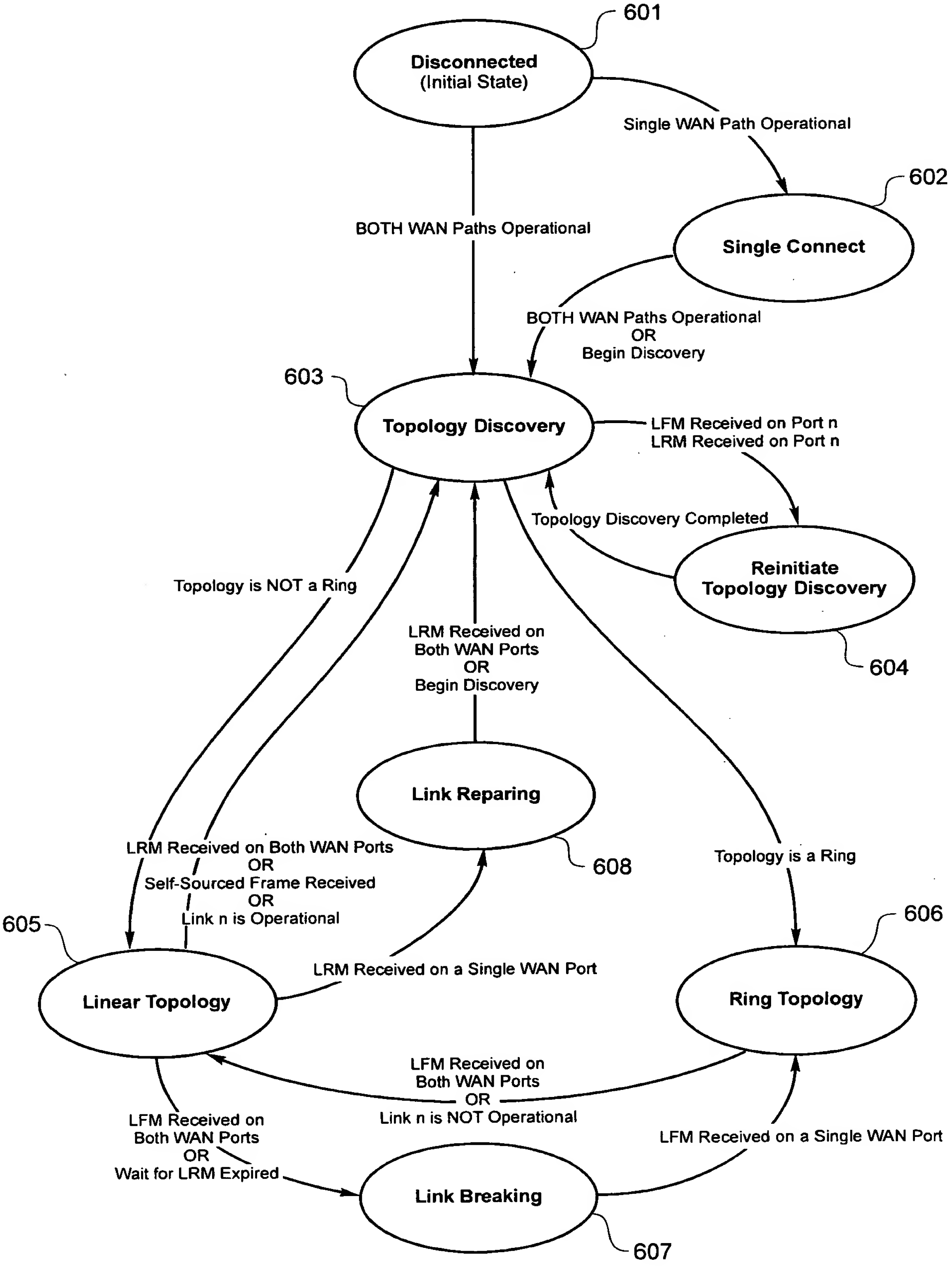


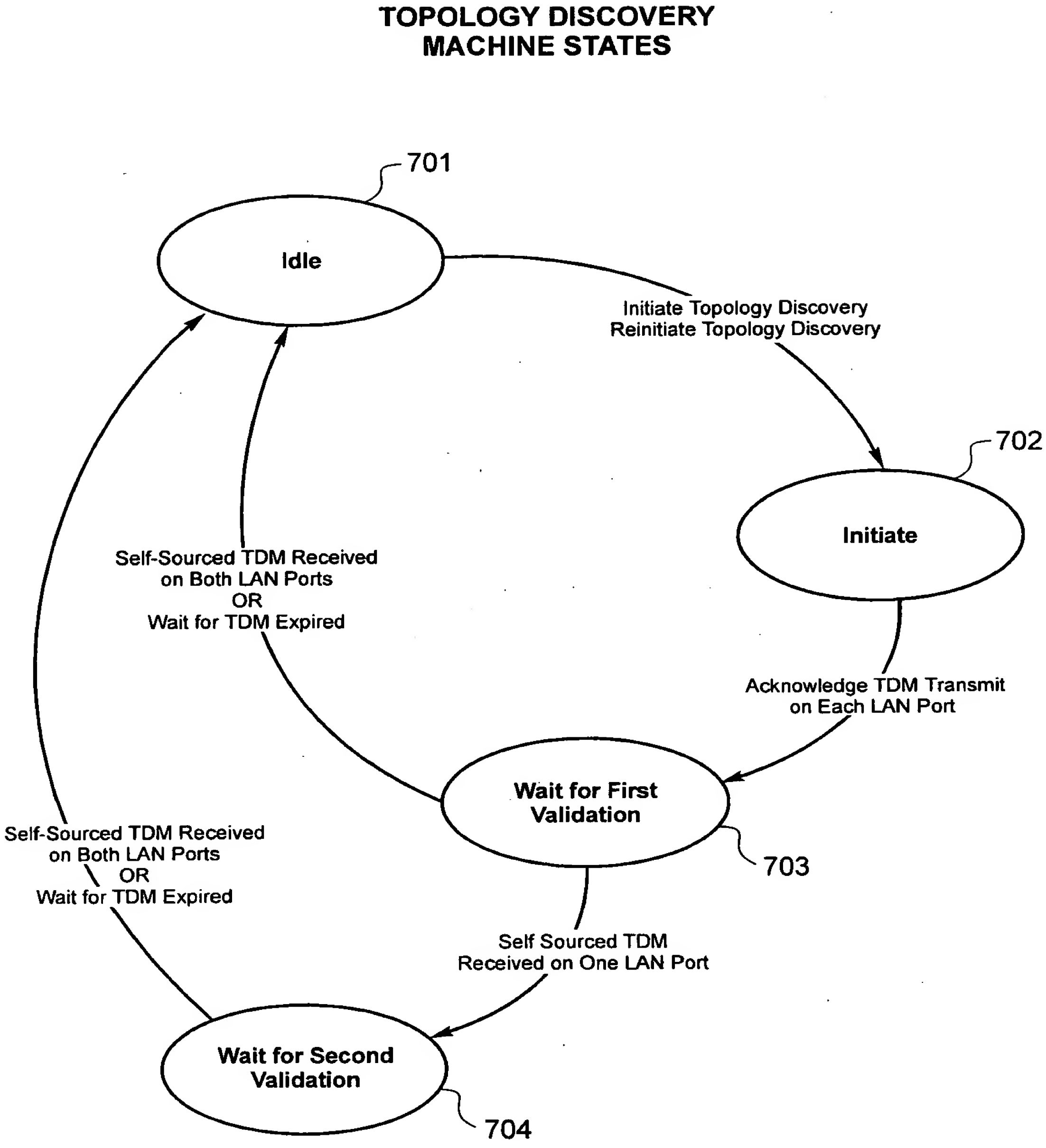
Figure 6

RECONFIGURATION MACHINE STATES



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

Figure 7



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

Figure 8

RECONFIGURATION NOTIFICATION MACHINE STATES

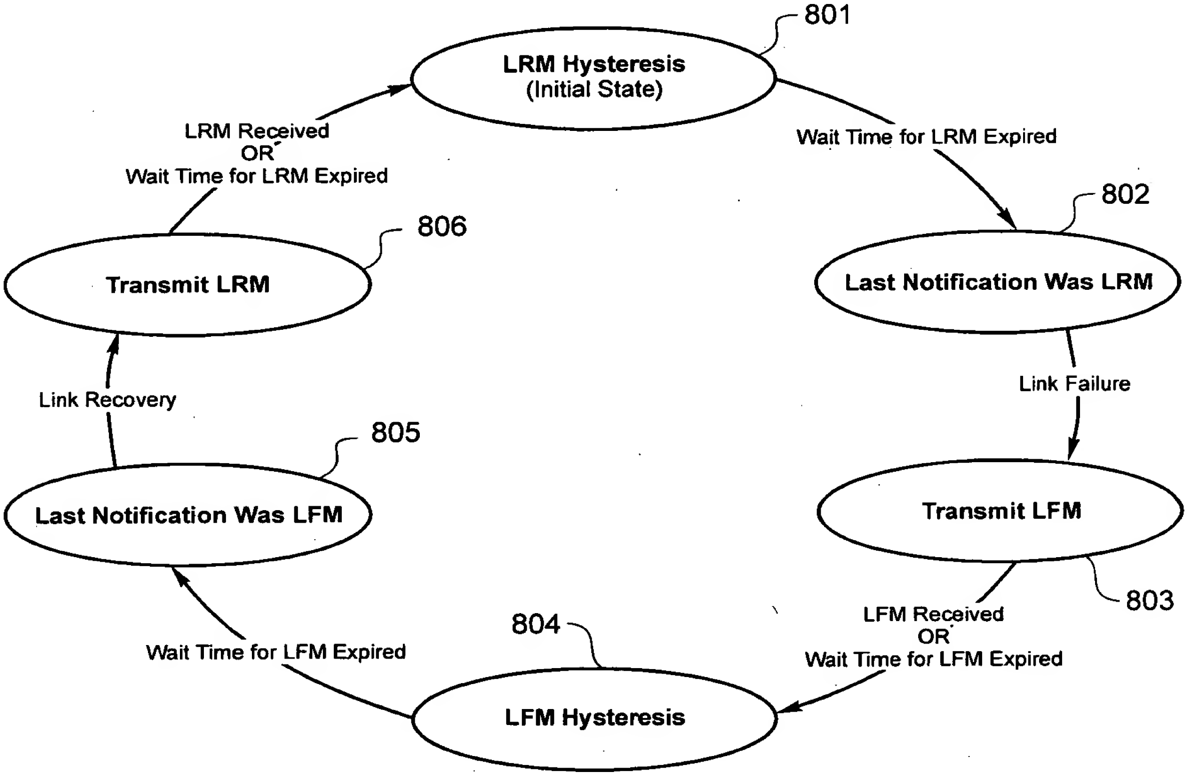
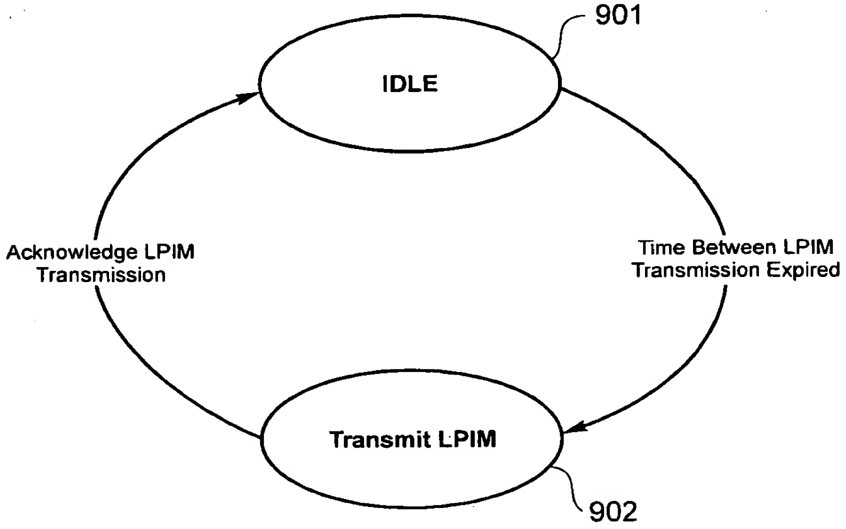


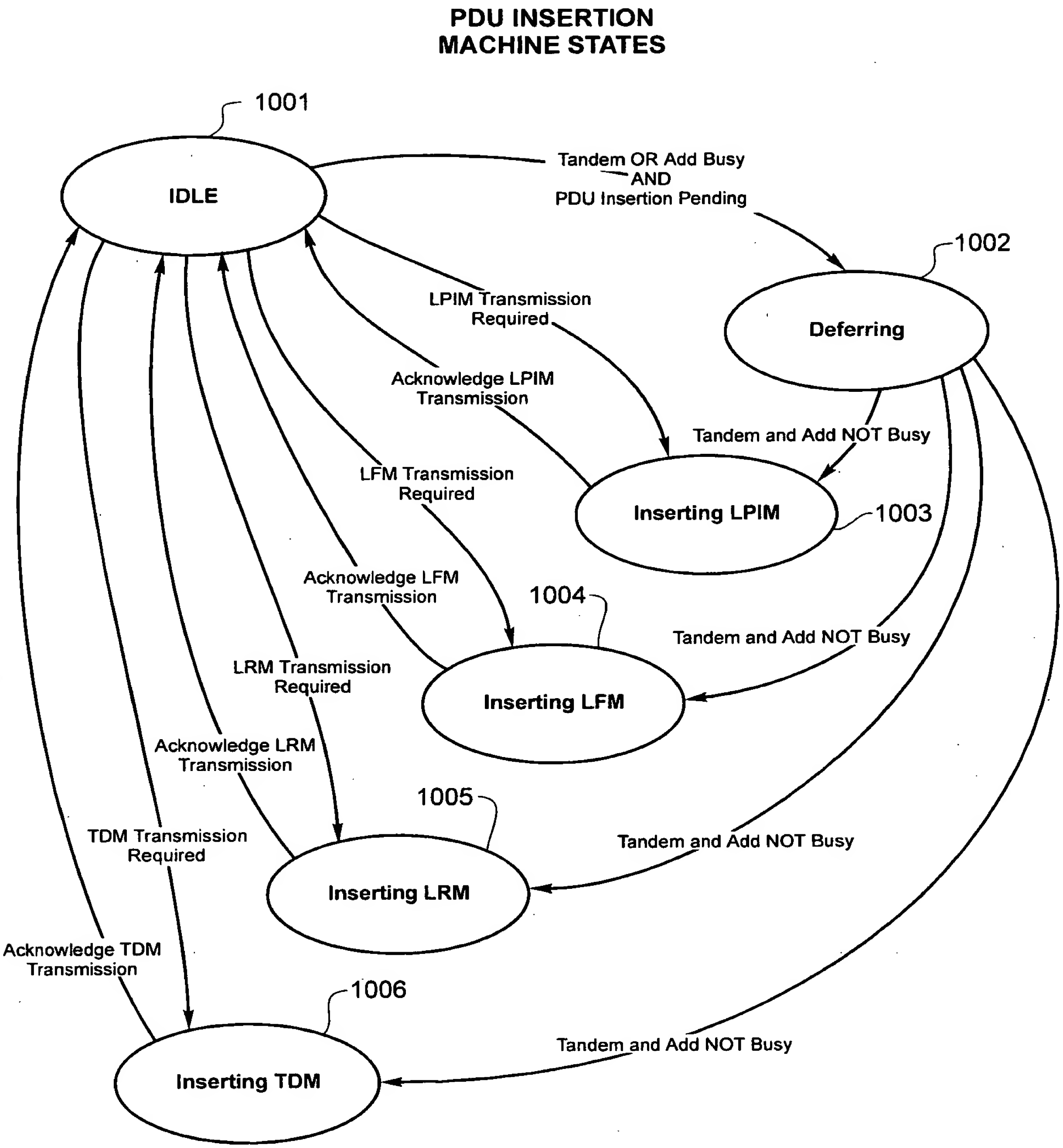
Figure 9

LINK INTEGRITY PDU TRANSMIT MACHINE STATES (LPIM Insertion Timer)



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

Figure 10



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

FIGURE 11

Name	**Value**	**Description**
Tlpim	200us	the maximum time between transmission of LPIMs.
Tsingle-connection	2ms	the maximum time spent waiting for the second connection before starting topology discovery.
Nlpim_operational	3	the number of consecutive LPIMs which must be received before declaring a link operational.
Nlpim_debounce	5	the number of LPIMs which must be missed before assuming link failure.
Nlpim_recovery	10	the number of consecutive LPIMs which must be received before declaring a link as recovered from failure.
Tlfm_to	200ms	the maximum time an AP 12 will spend waiting for the other end of a failed link to transmit its LFMs.
Tlrm_to	200ms	the maximum time an AP 12 will spend waiting for the other end of a failed link to transmit its LRMs.
Ttd_to	200ms	the maximum time an AP 12 will wait for a TDM before declaring a linear topology.
Tlrm_hysteresis_to	200ms	the minimum time an AP 12 will allow for a link to settle between the time of transmission of a LRM to the earliest possible transmission of the next LFM.
Tlfm_hysteresis_to	200ms	the minimum time an AP 12 will allow for a link to settle between the time of transmission of a LFM to the earliest possible transmission of the next LRM.